¥2033 - 12161



mis i

11011 ON

3 in x 5 in 3 mm 721 x mm 97

100 Sheets

12035-12yet, 1986. in Almiteraria Committee to be an interest - the still these. Wasatch Co, litale Open partiand with decreing conifors Harley - muit, 32 km. cenin east of - Les 2800m. : 20 ps. L.M., 12 13. 12, 5. 16, Lanes Eperal Harian Bouts 3 - Love to be, with Entered to many of when as aprouting frumthe 10c. 1 days 216 Ke head. L V.609

Artemisia spiciformis Osterh. artenire speciformic

12033 Contol.

2034. 1 Lept. 1986. AC, Theret Goodvich, Drevant Mc Arthur, and Elizabeth Nelse. Ducherre Co., utal. Open slopes along the What Fork of the Duckerne River, 17 km. Morthwest of tabonia, trup. 1 H., R. 9 W., 5.26. Wenta Special Meridian, Eleas 2250m. Plants 4-10 dm. tall, the inflorescences Standing stone the regetative parts Crushed lesses with susatiste of Artemisia tridentata Muett. Var, vaseyana (Rydb.) Beivin ant trid vary (6)

12035) Lipt 1986, AC, Shael Gradrich, Durant The arthur, and Elizabeth Rese , Sameplace es 12034. Scattered endividuals in a stored of a tridentata use regaria. Plants 15-25 m. tell, inequiarly rounded, the inflorescences not notably surpassing the regetation parts. Flowers 5 per head, but blooming Later then wer vasegana Few apparent intermediates Artemisia Fridentata Mutt. vari tridentata Rig regel (2)

12036- 1 Lept. 1986. AC, Theret Gosdrich, Durant Acarthur, and Elizaleth Mese. Open gentle stopes at the lower edge of the pinyon juniper 3000 5 fem. Asseth of Tabiona. Twp. 25. R. 7W., S. 17, Unita Special Meridian. Elec. 2075 m. Plants 4-10 2 mitall, Heads globose, with (3)4-5 flowers. Artemisia tridentata Mutt. var. wyamingensia (Bretlet A. Young)

12037 - Sept. 1,1986. AC, Short Graduit Ourset Mr arthur, & Slizabeth Niese In their packets of soil am flat sansstone rocks at the lower edge of the person-jumper 3 une. Ca. 232 km. west of Duchesne, Duchesne Co. Otah. Elev. 2000 m. Tmp. 35,, 2. 3W., S. 23. Wints Special Meridian; Rays 5-10, yellows microcophala Helianthella (A. Smy & smy Helianthold memorpholo (6)

12038-1 fept. 1986. AC, Sherel Hordrich Durant Me arthur & Elizabeth illese. Wasatch Co., that Utah. Dry meadow. Valley, 35 km. southers of Heber City. Elev. 2300m. Plants mostly 4-8 dm tall. F-lowers (8-) 10-13 Der head. Artemisia Cana Pursh artemisia cana (6)

12039. 2 tept. 1986. AC. Shevel Goodrich, Purent Mc Arthur, Elizabeth Meese + Leila Shultz. Juab Co., Utah. Sandy places in sagebrush -- rabbit brush communi ty ca 3 km south of Yroba Dam, ca 45 km, airline esst MDelta. Tap. 175, R. 2W. Elev. ca 1600 m. Ray 6-13, yellow. Dish very dark. Helianthella microcephala (A. Grex) A. Gray (5) Heliarthalls mein

Sherel Goodrich, Ourant McArthur, Elizabeth Heese + Leila Shulfz frat Co., Utah. Same place as 12039. Flowers 3-5 per head. Artemisia pygmoca A. Gray anticia.

12041-2 Sept. 1986. AC, Sherel Goodrich, Dyrant McArthur, Elizabeta Heese & Laila Shalle Some played 12-039, Flowers 4-6, yellow at first, soon fading nearly white Chrysothamnus parryi (A.Gray) Greene vor, affinis (A. Mels.) s charge the Magarly sarrye

17000-2 Sept. 1986. As) Sherel Goodrich Street Ale Arthur Elizabeth Neent, & Leila Shull 2. Same place & 12039. Flowers 4 per head. Chrysothamnus viscidiflorus (Hook) Mutt. Var. publiculus (O.C Eat.) Jepson 4 Pla

Ch. meri na . (1)

12543-2 fept 19861 AC, Sherel Goodrich, Durat Mc Arthor, Elizabeth Neeset Leila Shultz Clay soil amidst sandstone Atchoon open slepe in perigen-freneper zone. Parant Pavant Range, ca 25 km anding south of " Millard Co, Utch Trup. 245, R. 43 W., S. K. Elev. ra. 1800 m. Lemohoules up to ca 4 smitall. Flaces 4-7 perheat. Artemisia arbuscula Mutt. art sal 6

2044-280-519881 Love plour ex 12043-Beads yellow hays mostly 8. Gutierrezia petradoria (Welsh + Goodrich) Welsh > (7) Elas to Entre

12045 2 lege & D. A. Sherel sond rich Durant He Actions Elizabeth Sevier Co., wech: on 14000, 1 shyslite outerops in oak-progen parging 3 + w along throw inch, 16 hours due south of Kanosh, Tunk 255, R. Sw., S 35. Ele. 22 as in Exemple the skirtinally gray, others werely green Artemisia carruthii Wood art Carrette.

Goodrich, Elizabeth Necse, and Leila shultz Millard Co., Utah. Windblown sandy soil, in Pineballey, ca 65 km. w. of of Milford, shortly west of the Wa Kn Mts. Tup. 245. R 16W, , Ca, 5 29. Elav. ca 1650 m. Densely bearing shrubs 6-12 destall. Flowers yellow (4) 5 per hogy Achelles glabrous. Chrysothamnus nauseosus (Pallas) var, turbinatus (M.E.Jones) Blake Cler. M. Tresberatus 6

12047 - 3 Sept 1986 AC. Sherel Goodrich, Elizabeth Meesp, theila Shultz. Sandy soil in Pine Valley, ca 65 km. wast of Milford; and shortly west of the Na wa Mts, Millard Co., 44.4. Trup 255, R.164. S.4016 Elev, 1600 fn. Shoules 2-5 dm. tall. Flowers yellow, 4 015 per Chrysothamnus greenei (A. Gray) E.L. Greene Ch grener 2.5Am

12048 - 3 Sept. 1996. AC, Sherel Goodilety Elizabeth Neese and Leila Shull 21 Millard Co. Utah. In and along a gravelly wash in sandy dress desert Pinelaller CALSKM wish of Milford, and shortly west of the Wa wa Mts 1 T. 245. R. 16W. S.29 Ele (1600 m) Shown 6. 2 a Rome to El. Flamers yellan, 4-6 per head. latisquamum Lepitospartum S. Wats. Lendoncartion ()

12849. AC. 7 Figur 1786 Eldo In Neucki. " while gravelly northeast slopes arendering the falt fale Desert, 2230 hom. south of Windows Wendower, and 17 down motherst i'll with House Page, Elev, ca. . 500 m. Tup. 30 North, R. 70 East. Elev. Ca. 1550 m. Low shows, mostly 2. 4 cm. tall I answers showy yellow grund. Artemisia nova A. Nels. Catherial Anna (1)

12050. AC 7 Sept 1986 White finals, Founday. Hentle : per west slope in breed reality between the Scholl Crech Range and the Egan warrige, Ca 26 km. north of Wi Gill. Elev. Trup 21 North, R64E. Elev. ca. 1800 m. Shoules 4-12 km. tall, Artemisia tridentata. Nutt. var. myomingensis (Beetle + A. Yuu.13) 812.4 a trid everyour.

1. 1. 1. 1. . . . Youre harman The openings in borening ((Lee + Cres) stops in set the rest with the Steppen we zer to state of held some in the doct in marginal in Al is with the production R. 2 E., S. C. Commence of the second ince promotor, in all with the opinion prostore and greath # 12052, forther product while to Artemisia arbuscula Mutt. 1 1 11 31 11 en heraute

2052 Atrack to the worth Your 20 September 1882 Sameple of 2012051. Plants na 6-10 der Tall Stat Coppeds earnplus like adas. Framing wel : #, 12051, a arbierula, dint the point. Artemisia tridentata Must. var. Vaseyana (Rydb.) Boirin

1 Indiana

12053 11 1 1 1 1 1 23 April 87 Marily of Each realing In the is produced with by the modelle of Brood River, Elev. Ca 150m. Winnsbren. Plands colonial, with 12 short steries, trapile Philosoph as a chas personal bulbs, I lowers is radi- Kurpler Oxalis violacea L. Oxalis violace 2

12051 ACL Sing-26 April 18, Marin Constioned In oak-magnolia comi, Ocala Matismal Forest, Ca. 4 友 Kin. cost of Lynne. Erect slender Daniels in. 3 m. tall. Thorris white Vaccirium arboreum Morsh. V Mounin orboran 4)

12055 - AC + Shin Levy Co., Florida. Union querous laevis ersion Sond-Lills be - week Williston on Bromson, the house in the sound as the of Dens grandstribs master a destation Leren seid or tes, and tes, the Short Strains with Ceratiola ericoides Michx. .,); Ceraticia encoides

12056 - Shen L Crongaist 30 April, 1787, ryler Carteris. Under of which pine winds along the high. Elevica 1 mt nul. Santo in Plants mostly rigle-stemmed and himmal occasionally bleoming a record line and Then with I stems. Bracks white Problems first peuls furt some bysingrabite 354 stjet 56 . Ind less 1 3" 37m in of fage. antimin (5) 11 4000 2000 11

12036. 2000 The 30 April 17 Policy of the second what of Diregine wasis a long highar 37-38 km fasi - Livingston, Elev, Ca. + 100+ m. 1210 is indices and ally breamy being and entermined time to and the state of t white. Hymenographic introduction Harry Estin (2)

1205 7. 1 May, 1587. Ar 2003 Polk Contributes In midro ons plan woods over looking strong a cally km boson many hake Elux. Ca, 400 ... L'el manager se le de percanal Mostly since stemand. Lune Some der Commen Orange Krigia biflora (Walter) S.F. Blake 3303 Krigia birlere (C)

& June 1987. Millard Co., Utah. Along the recoding margin of Scipio Lake, ca. 27km. by road (U.S. 50) northwest of Salina. Sagebrush Zone. Elev. 1800m Tup. 20 South, Range 2 West, Section 2. Utricularia vulgaris L. Utricularia Valgaris (5)

12058 Act Kaye 4 Thorne

12059- AC & taye 4. Thorn. 9 June, 1987, Kane Co. 1-ak. On rocky (sandstone) northeast slope of Paria Canyon, ca. 2km Southeast of old Parin, and 65 Km. east of Kanab. Township 41 South, Range I West, near the corner of Sections 17, 18, 19, and 20. E 10%, ca. 1450 M. Sayebrack Zone, I aproofed perennial, usually with several stems, Flowers rich piek. Typelocality Of Circliam Midulum M.E. Jones. Circliam arizoniam (A. Gray) Petrong 6. Incl 3 sheet 1,3 sheet2 158110m 9112041814m

Erigeron utahensis Albray var, utahensis

Eregeren utahoriis 31 6

12061 AC + Kaye 4. Thorne. 9 June, 1987. Kone Co., Utah Sandy clay floodplain of Paria River, Ca. 1+ km. southeast of old Paria, and 65 km. C.754 of Kanab. Sagebrush zone. Tourship 4/South, Range I west, Section 18, Elev- ca. 1450 m. Tapisold, many-5 timed perennial Heads yellow. Rays 7-13. Chrysopsis villosa (Pursh) Mutt seus, lat, Chrone wir in Clara as e

12062 - AC + Kaye H, thorne. 9 June, 1987, Come Con Utag. Same place as12061. Only one plant seen. Flowers Sull pupile. Orobanche Indoviciana Nutt var. cooperi(A, Gray) Beck

i obanche ludais (1)

12063 AC + Raye H. Thorne, 10 June. 1987. Juab Co. , 464 Gravelly roadilde banks in the Sage bruik zone about - pring la le (4) - 1 0 × 15, ca 38+ km by road south of Provo. Sagebrush 2040.7 Taprooted biennials up to 1.5 m. Itall, single-stemmed, Heads write to pole lovelock. Two heads 174 and 255 Flowers) Fromaship 10 South Roige 1E ast, (4. section 33. Corolla-throat longer the the locks. Circum neomexicanim A. Gray 9, incl 3 , -et 1, 3 sheet 2/3 sheet 3)

12064 24 Aug., 1987 A.C. + Eric F. Lamont Rocky, bushy open slopes about timberline on the norther side ; Mt. Washington, Presidential How - ampshire, shoully above I be to mile provident to for and . Elev. ca. 1450 m Part of an apparent hadis swarm becaren Biglandulosa and a dwaffelpine passe of B. papyrifere Plants carl 1. 41/1. Betula "X minor (Tuckerman) Fern." Botala " menor" (1)

12065 24 / 13. 15%. ACJENZE PROMOTO Samo glace 25/2064. France John tall Betula glandulosa Michx, vari glandulosa

1)

B. 9/2/20015

13.... 74 Aug. 1 5% Sometimen of the second of the second Plants Ca I m. tall. Part of an apparent hybrid swarm between B.glandulosa and a dwarf alpine phase of B. papyrifera.

Betula "Xminor (Tuckerman) Fern."

12067 Fogan Co, Co. in prairie da 19 hm. west of stone ing. Lingle- stommed topostel annuals my is we see in tall, weeks merky freeze. Bracks willed in was fined Petaloid apprise team & (wir messens from west wouldbe a Symulting ly keepned set of 5). Enprison marginata Pursh Cestartie

12068. 3 Sept 1807. Brane in itale Sanky slapes along the Colorado River, na 16 tem. road crossing per with 16 Mab. Tup. 255, R. 225. 5.46. 4 Ett. - en 1250 m. I you It annext in to marker ? . Tall, organizate dermone to ment of com Artife the section, Edward Co. Lepidium latitolium . (5-) Lapide.

120695 Sept, 1987. Grand Co. Waly. Distrovbed granitic substrate along the read or the morth end of the fa tal ites, are dealing the upper int km, autice water, en 20 h Thorps 265, R. 24 2, ca. S.S. Elle Ca 2300 W. Perennial with several lossely clastered stores, greating by a supering ante, Elaboro no Eler pale lane video, a visione pends white. Mirabil's linearis (purch) Feiner/ Mindely 3

12: 0 : 16/0/67, 12 m 12 0 mg +012069. 1.5 m. tal. bredy branched and meany incoded that And breakle atout Aundres Et Milly Heads & munerous, law ender-purple alles siving Comment, 6-7 min long, resistant to wetting. Revenued up to 1.5 m. teil, specialist Croeping resessions front warrand Circum trocyi (Rylb.) Petrale (3, including second 1 souts)

12071 - 5 Len 6/16 - 1 & the Brushy we + stope to La Pal Mes, shortly north Missis inchatogo 265. : 14 E, ca. 5.33. Elen Ce 2300m. Kage 17-23, 14-20 mm is no hought actiched. para de Ca constituted A. Gray

12072 5 Report 67. Grand Co, Utale meckens at lige of Aprice Lovest on therewit stope of the Falabillet, on Henri ley masurial Geyser Pier. Elevica 3000 m. Plants up to 1.5 / annearly 2) m tall, single tommed, huidently shart lines, but us separate lain resettes sun l'amor = Plan Atrict, I not, much short , in conding Representa landre liter Figures whititopale

Cirsium scopulorum (Creene) Cockerell

en (4)

12073 5 Lent 1987 When I Co, what. Edges / slope of the fa had nich, ca 3 hm. mest flesper Paro, Tuy 275, R. 24E. Eler co, 3000 m. Senecio serra Hook, var. admirabilis (Greene) A. Nels. /) 367

12074 - 6 Rept 1754. say Junes overlooking Hotel word to the south,) ca 45 km south / Mont. Trup, 29 5, R. 235, 5.34. Eleca Hours 1800m Ll. 6 1-1.5 (-2) m. Cell. Flowers yelen Hook and Fadder Gulch NO 25. 7843 Chrysothamnus (PallosiEs, 42. varigravealons (Mutt,) H.M. Hall, 5,963 Chran - Naus.

12075,6 Aux 187 Serve proces 12074. anneal, up to 1 (-15) in tall, Kays He The 11-15 (-(7) yellow, 2.5- 3.5 a white hearded center. Helianthus petisiaris Hutt. (the fa ax phase) H. poblikani.

(1)

1207 6 (pt. 1987) Level Place 6 12075, annes, Marie 15-6, penho encuelar, Stephanomeria exigua Nutt Maplianes (5)

1207 6 fep 487. Samples as 12034. Stems numarous, cliestored on a taporent. Rays Chrysopsis Villosa (Pursh) Nutto, sens, lat.

C. miltore

(F)

12078 6 Sept 1187. Sam place 6012074. Plants up to 8 dm tall. Rays 19-27, rich bluelavender, usnying to Azmetames pato blee- Lawrence 10-14 mm lareg, homails Machaermakhna Greene 17 5 Machacuareline

2079. Z 6 40 AT 67. . In franco Wale Open, gravilly provider at the time aspen- spruce 3 and is an other wedge park end forman Greek. Circiam centaurene (Rydb.) K. Schum. (4) abajo mits, southwest Monteners, Ca Trop 345 K 222 Sile Ca 290 m. Peremaie Printe 1- several atoms together agreement in king stated Towns on the Hower die 1848. 1 (11 mm)

12080-7 Bent 1787 Lan Juan Co, tak Rocky Aandstone My ses and mache in prosegon -- previous community, our washing Burch Gregor, 7.5 km, lary was ing reak morth disunderes earth utal: . + 00 \$ 375, 200 8 Water al Bridge storest Monument. Tup 1. 1. 198. Eine a 2100 m. Plants The; explores and colonial Leaves glaveman Ray (87/0-14, cery pall laureer, D-11 hom long Aster glaucodes S.F. Blake aster Dancas

12081 - lept, 11, 1957 Mye Co , Hennha. Dry alhaline antalow Just last of Duchunter. Tup. 13 H., R. 56E., S. 6. 7. Eler. 1700 m. houps 10-17, yell one 7-10 my long, Haplopappus lanceolatus (Hook) Torr, + A. Gray Haplypappin & houldit

1203 2 20/2 11 1834 My do ter, alkatere lay medical just related Leacherster Tup. 13 1. R. 55 5 E., S. 30 Eles. 1700 m. Tapastel brenzial 7 - tall. Flavers pint. 12 della part parople to werly white white Cirsium mohavense (Greene) Petrak 3, ind 1 short 1 14/1/2 /4/1/3 Census carterise

12603 LORI 1/1007 Myo Co. Man: Land place 2012082. Skrubusts Co. 7 Sin tall, Flavor 5, white Involveral bracks andy poorly aligned vertically Chrysofnammus albidus (M.E. Jones) Greene chups (5)

12084 lex + 12, 1987 mond Co. Carla min Basarte Cliffer and Course talara / km. Kattickey Tour the manx (California 168) p home yelyan Westgood Pass akong the Californea mark 168, sofeth and of The white mes Trups Rango Elein da. 1950m. Hazilyappio

12084. Jep: 12,190% born to differ and come ca 4 how lasterly from Westgard Fire many California road Trape, 75., R 35 6 368. Ele Ce 1950 m. Frely branched, armster Should up to ca. In. Call. Twigs glutinous Leaven Purchate. Head succession yellow, with do 25 flavers. Haplopappus Cuncatus A. Gray 1 da seguina de seguin 309,1

12085- 12 2:11747. move to relie apen shopes thes, near the Patricial Every , og 33 km by rock morthy Westgrad Pass. seneral stimmed fromthe best freely horarched, up to about 5 km tall. Trup. 35, R. 356, 34E Artemisia halliana Crous. Snowledding (7)

12086 - Rep\$12,1987 Warso to . Talif. a simplace NS 12085. A single struck with the short leaved New of artenies sothy solices a halleana Artemisia cana Pursh

anternisia Cana @

1208/-time 13,1987 Mono Con well By a receipt (quantic) remarks of meatherny Loren Seriou Paro, nest of tee Vining in the Lierra I wada. Tuys IN, R. 255, S. 30. Elen. 3000 m. Freely branching should 1011 stems bremtly here Flowers = a, 8.13 per head Artemisia rothrockii A. Gray 3-2- 63 arternia rothruchie (5)

12088 - Sept. 13, 1987 Mono Co. California. Roby Patrick Scattered It spirit series to the hy road lasterly I am Sunson l'ass il the Siena Nevasa. Tmp. 228, R,5 H. Elev. ca. 2700.11. Freely branching showing up To do la lam tell cana Pursh Artemisia a. Molowhy 5

12089-15 Sept. 1987. Hanney Co., Golgan along seeps flowing pring and at the sauthwest dies of Steens Mit., 740 km, by road morthwest 5,25 Eler, 6, 200 Tapareted, ingle it much Lierania Josephy 1 Din Gall shortly and mornely larger wants well some larger of consingly and to hour Lorether Lower Heads small, etterbeinte. Just south of the mouth To ment RATE

12039 Cantl Junalise and liverts with clockly appressed, J. Cenesh leaker, a prominent gray white glutinous donal gidge, and short aftruptly as spreading-ascending spine Plants wather soft for a thistle with hollow clem (3, ind I sheet) (sheet 2, 1 sheet 3) Or melani deceptace

12089-13 dept 1987. Harrey Howevery spring area just 3-mile Congon 13 km her road 355. R 325, 5.25, Seen 1400 m. Taprontes in second single stimmed becamed, mustly 1-2 m tell, shortly and narrawly branched aguardo, en longer plants also method few hanger exceeding branches from farther haven. Heads amall, after benet. Involved boarts with closely is so new page

a preminent, gray, whit, genteren devaloredge and a short, abruptly spring spine. Flamers landed - purple. Plants holder stemment and pressure sold for a thurste . douglasii DC. Cirsium 3, incl 1 sheet 1, 1 sheet 7) 1 sheet 3 m Cersian dang asir

12090-19 Sept 1987. Makou Co lings with is catilized if herether gentle, grand of wer the ca 85 . My road south 1 St. Ling italia tup. 36 N. R. 1111, cais, 34. Edge a training Soft had should sa. 4 6 Bantalle 13 toca. Invested was law to a till. Ray mine a mostly 8, 11- To me in it in g. Hornboard Post y Mik Senecia longilobus Benth. Liver le agis lues (6)

12091-19 Just. 1957. Michael in, arguma. with Scattered sagelinesh and Gerarian Juniper as necky (Limester stopes, Theorthy below the blad i Pigeon Canyon, argana Strip Callokni by mand south 1. Heavy, Wich. Plants lossely colonial Les Crising Thezendo, This 33 34 H, R, 12W. S. \$ 7. Eler. Ca. 1700 m. Artemisia Carruthii A. Wood

artenine earth Co

12092-19 Lept 1987 Wohne Co. artgara Roadside in sageboush zama grantito substrate, It. Megras weah, on the would to and. Office Dellenbaugh Ra 3.5 km. south of the trem of to Pigeon GALLAN. Eler. 201710 m. 534035. Perinnial spreading by Leep seated energing ments. Plants stout but esw, order 2-6 dry, talk Flawers rich carmine to almost creation

Cirsium Ochrocentrum A. Gray

> 37.9 35.7

Circum.
I and see 2 sheet,

-25 frame 1/35 5 5 USSR, Gorns. Altaysh Autonomous Region, Foothills is the Allai Mits, ca, 50 60 km. southwest of Gurno-Altaysk, in the valley of the Sema River, Indiase. low, herbriers Version ander Scattered it record Bedula pendula. Eler, 900 mi plants with leader the Lower. and write flowers Steven Cerastium pauciflorum Rout in the - * rastium

12074-25 June 1988 J. S S.R. A.C. + al. Same basic locality as 12093 Open, south-facing Schistoge Cliffs of outcrops at 100 m. elev. Butak pendula the dominant fire in the arma Freely branching shrubs ux to Ca Im. fol. Flowers white Spiraea trilobata L.

Spiraea fritatala (2)

2005 Dijune... S A American AC. e+ 91. Same place as 12094 Open, south-facing schiclose efic Eritrichium rupestre (Pallas) Bungo, sens, lat. (Evaltaicum M. Popou)

Eritrich un

Same place as 12.095

Tellaropsis altaica
(Thieb.) Pabed.

Flower pinkish in bud, but the link white on hop when spen 1201 -25 June, 1988. AC et al Open, south facility, schillese slopes, Elevi Loom,

Dracocephalum ruyschianum

Stems clustered on a liberary router

12098 36 36 45 17 17 Of Gorne Maysk I of polouses to sent, Fouthill's 62 5 m 21/41 Mts, 50 65 ... Solita Survivation The wood ... Betula) un hostolandy runky Constalling innous) slope over ion sing for Katyn Rover. 450 neer Chemay Granding in a - 2 m. tall A service of the serv

1 - 2 Clare, 1188. Acces 12098 Or open cliff-ledges on west-facing slope in forest of Betula pendula (Some Pinus Sylvestris).

Eler. 500 m. Flowers bright yellow

Patring 3)

26 June 1988 Acetal 4950 Same yene xel plan in 12-098- Frem West -Facina Mocky (schistose) 5/012:51 Flowers law bire Delphinium laxiflorum 25.

12101 26 June, 1988 AC et 91. Same dinacci · Place as 12012 - but in moist, mossy Flaces on for ledges along the Miser wellex. Flowers white Saxifraga sibirica L 12 - 174

12.07 26 June AC & Margarida Baranova USSR. Gorns-Allaysle Antonomous Reglow, Valley of the River Kuba, ca loim south of Chemal, and 75km 204 this Gorno Altaisk Elevi Loom. Moist meadow near the Stream Flowers sy sky-blue. Myosotis caespitosa Schultz

- 2 h June 11788 ACA Margaria Rayman USSP. Garra Winysk Auforenous Region Foothills of the Altaints, Cpan, CAST-GACING Sign. CA 14 Km South of Chample of the 20 km a South a Gorno-Aitaysk Valle . I the River Kuban Elev. 600 m. Stensolusions on a + skui Thizonic Caudex, Flowers blue Polemorium caeruleum L.

10/11/ 26 2020

some place as 12:03

Delphinium laxiflorum DC. 2 - 26 Jane, 178's

Cotoneaster melanocarpus Fischer anno place 4-513163

Patrinia intermedia

(Hornem.) Roemer & Schultes

21-2 27 12 20.1988. AC chal, wesca. Garas- Allayer Antonom, skeppen Basin of the River Sema, Sharing and hot Topuchaya, Ca looky son - soilungt of Gorna Altayse Altai Mts. 115 T Mention like come tros at 1200m elens it le strumed, fibrous-vooted Personal He do yellow. Rais Indianie E, Sumetimes ON12 - the secon fine Ligularia glasma (L.) D. Horima Lightery allaren 3

1208 27 2000 Ac el ni -3 12 127 5224 place Short stem solitary on a Florers Program of Cretonia Pale Isome to waite.

Ceranium bifforum

12109 AC 11.27 June 1831 USSR. Guera Altarch Autonomoks Region. Alta! Mis in the basin shall be lirsul River, ca 120 km south southwest of Gains Altrysic Larix sibiniza 1550 m. alev. Sirver 1.5 m high . Floures white chamaedry folia h. Spiraea Siprim Chanydr, tolia-

1

29 June 39 Ac et al. Uss 12110-Samo 12 8 cm 2000 12009 Stone ... and on a compact, fibrous rooted basis, Flowers bright priange

Trollins altaicus C.A. Meyer

Trelia da Hy

12111 ACIMAGAITA Bornua 12 50%, - Gorno. 6 100 Aut . Altai Mts shortis Lastar Vacagan and ca 130 km south-southwest of Gorno- Altayok, Climbing over interes on just horth of a say's 1 ms between the Charysteh and Ursul River basine Temis 4, white 28 June 1988 Elevi calboom Clematis sibirica (L.) Miller

sibirice ()

12112 ACT MARAS. The BRIDGES 28 June 1938 Or an open, west-facing steps with dense, low, herbacerus vegetations Latin Sibiraca the domine tree hearby. 2-3 km north of a Major pass -- ete as in 12111. Elev. (a1700m, Rays 36-58 (& counts), blue-lavender Yabagan Pars Aster alpinus L. agit a pine (8)

12/13 ACH Margarita Baring 28 June 1985 : Same place es 12/12 E1: 1. Ca 1700m, Stems Solitory on a short, fibrous-rooted Crown or Candex, Leaves glancous, Filoments bright white narrowly petaloid Thalictrum petaloideum Thalisher (2)

12114-29 June, 1555 AC of M. USSR Eario. Altayet Autonomicus Region Capen maid places ca 3 km rast of Yabourn Pass, A - 21 1115. ca 1301em South-southwest of Gorna Alixvan Eler : 1300111. Freely been Slugger Att Arm britake should be it is not high. Flowers white and the second s Sibiraea altaiensis (Laxm.) Schneider Sibility Care

1215 27 my, 1188 ACX Margarita Branca USSR Gorno- Altaysk Autonomous Region. Altai Mis Shortly southers hof Klubarovan and callo km south of Gorno-Altayst. Diffigure south stope, ampiget graniteil rocks Flowers pink-lavender Gonielimon (L.) Boissi Species um 6 Goncolimon

1216 : 2000 1008 Ac + Marita Baranova, 2 some place as 12115, but wist Plane spreading by stender inizomes. Flowers light gradies on the Galium coriaceum Bunge $\sqrt{}_{i}$ Galian Loriace un

12117-29 June, 1958 ACL Margarita Baranors Sime place as 12115 - but Open, granitic stopes no direction. Flowers lavender Phlomis tuberova L. Flowers Lander

PX/31 4.6.1039 3)

Margarite Baranova
Same place es 12116

Flowers rien Enc

Campanula sibirica L.

Campan to sibilization

12119-30 June 1788, ACL Marrieta Barana. 4 SSX Gorno Altaysh Animonas Region. Alta / MIS 1200m, eler, Semi-open places, with Garix Sibirion one granitoid inse shoully southeast of Khaberouke, and co. 130km remin 1 Going Allayse Stems clysteria, Creat. Floures ochrolines, almost white Astraga es folliculais Pallas

Astragalus (

12150 53 1010 1206 ACIMO Jaila A. Same Place as 12119. timers bright pink · lasender Centaurea sibirleal. Same place as 12117.

Flowers sky. blue.

Eritrichium rupostre (Pallas) Bunge, seus. lat. (M. subrupestre M. Popou)

Eine iden (3)

2122-30 3044,1968. Open, we resided to 12.11 Leontopodium ochroleucin Bezzel. var. Campestre (Ledeb.) Érmbou

Leavinger Fine By

12123-30 Perene, 1738. 1. 1. USSA GOILL E. eyel. Accompas A gielle Musi looking the Katun River, ~ 160 km sini sorne Altayare Altai Mts. Landy, Francilly, open her law. Alexander ad in tall. I have plan Caragana Pygmaea (L.) DC. Paragranings sala (1)

12124-30 June, 1983 AC etal USSC. Garns Alligar And more and a fine of the Carle Km. South of acres Elevi-inom. being your by grante I who working the kation Finer : Rays ca 18-30, Wills Primar Heteropappies altaicus (Willd.) Novopoki. Helero parpes . I.

12125 - 1000 17 Masgarita Baranova. USSR. Gorno. Altaysk Auleno. mans Region (Louse, There y, And the second of the second of Rutin Russ Altai 145 ca. Bris. See Gar. A task Elerica Goom (2 ulden streating Monophy "a disside 16.

1012 . 2 117 1, 1983 AC F Margarita Ba man Cond 501 AD 2000 / Autonous Region Allai it's Stony. allumid ridge between the Katun and Chuya Willis Ex 160 km. south of Guing - Altaysk. Elev. ca. 60. Flowers bright low purple. Scytellaria grandiflora Sims Sentellaria y a ser (con) 12/27. 16 10 1 100 de 10 100 1 Editions Hiller, but on being white, with the state of the state of the Convolvulus ammani Desr.

Convole 14 (3)

12128 / July, 1956 Ace Mangarita Barranana USSR- Gorno Altaysk Autonomous Region, Altai Mts. calloka, south of Gorno. Altaxsk. Loose, stony, sendx alluvial slopes just between the Katun and Chura Rivers. Elevica. 600 m. Flowers tennifolia. Willd. Polygala 3/12. Paly 1. 1/2 1 milolia 3)

12129-1 July 1988 30.4. Gorno-Altaysk Autonomous Region. Altai Mis. Ca Km South of Gurno-Altaysk. Elev. ca 1000m. In the shade of scattered Between microphylia small trees on west slope our bolen the Chuja River. Rays 18-33 (6 courts) blue-- la muder. Ca 30km above its june tion with the Katun Rever. Aster alpinus L. Oster algunial)

12130- 37814, 1888 in the DOW Sun to L. Marie King Janes Was CA SAN SAN ... 2/29 ... Ele . (a. 130 ... 16000 huya Kine Sound to Katur. manage wind Plan at the standard of the standard. Parla Parla eville T.

12131 2 La leg " " Mangarta Barrana USSK-GOING Altayer Auto. nomens Payon, the Kill south 2 - 1801 10 ALTEYSKI Wagunsky Mass Mor line store retor Park, I suit the harge of to A val Mis. Elev. ca. 1825 m.

Valeriana o Chimalis

12/72 1/11/1 228 A - + Alangarita Baranous in the research this s · marin health of km south of Gurno-Altayor Most, name nocky mradow in Igulat stey Prote I galotaty Range is the Askal Ander Elevica. 1875 m. Flowers white. Anthers 2 Plante with the oder of experile Lagotis integritation (Willa.) Schischkin / Lagatis integriting 3

Margarita Baranera

Sem. place as12132.

Branching shrub 3-4 dm fall

Salix caesia Ville

12134 - 2 July 1725. Margarita Briggon, Using 5-21 no Altavek Dyfonomice 1- M. Altai Alts, - King Survey Gerna Altaver, Edge of forest near Sorulukel Lake, Ingula tsky Range, Elevica, 1850m. Sor who hellake plants forming mints as .. De standard Stammate reacts white, put we particle hole Antenna. dioica (La) / (Z. 3 . ; 11. 1 (1850m. Antennasia drana is

12156 3 1/2 1555 AC 11 14, Going Altayed Autono nous Ropen Altoi Mts. calbox m south of service and Rayton Count Allayer, Elev. La 25001 Rucky of the state some it slove below op i lalia The contract of the second 1 - Fre 62 2 1 da high, a man concruy resuper the upper size. Betula retunditolia spach rct ... d. L. 2 5 Tola

12172 2 ... 2 ... 3 ... 32 USSR, Some placy as 12135 Paning lass tuffer south is ing rouse schislose to vou here. Flowers such yellow. Elin ex 231700

Biebersteinid odora Stephan Stephan

Biebersteinn

12137: 3 July, 1988 ME Same basic places 12135. Forming Road mats on meadow - like Achistore Alopes to below south-bacing takes. others evert. Salix rectijulis Ledeb.

Mrach (3) Salex

1.135 6 3 day 15 1.12 et al. USSK. Gorno-A - e, to Anie william Region -Altai Mis, ca. 160 am. Sund Kish thense 1 6 cons Aite and Should in the On opin, tuity Stopes above timber line . Ditense whites and sometimes 2 or 3 type there. Heads I am or addition is went, the race turning yellow in a grande My the tart Pass and 13, or aporte of he Senecia cumbala. . Pursh Since combineries

12139-3July 1988, AC Com Altai Mts., Ca 160km south-southeast of Gorno. All explored directly north of Aktach. Eles Ca. 2000 Open slopes in a canyon a liftle above the strain, Macropodium nivale (Pallas) R.Br.

hΛ . . .

Malrojina

w more in

 \sim'

1 12139 a 1 . 4/4, AC + Margarita Barranca USA Corner Mark A. Farancias Region. s Altailies camara source , so week at Garno- Alteyse, ol shortly northor Aktash Menney & but m. import, furty slopes in the eat sadjust doone : " Stims Freaping and grand grand Salix restijulis Ledeb. 9 Sal14

12.40-42 Noss College.
Baranda.
Seme place es 10188

Sime place as 10188

Corydalis pauciflora (Steph.) Pers.

Correlation Advertice

12.41. 4 July, 1988 ACH Margarita Baranova. 1:55R Gurno-Altexsk Antonomens Region Altai MIS, calloka South and yet of Gorno-Altaysk and shortly north of Aktash, Elevi Ca. 2000 m. with Larix sidinier on Pirus Similar on southerst slope Charles of the Charles down a. Um telli Salix jenisseensis (F. Schmidt) Floderus Sally yearsiers,

12142. 4 July, 1988, AC Same place 45/2141

Lax shrube calism. tall

Lonicera Caerulea h.

Lovicere 12 carrula (2)

Ar Some Sychon,

Scorzonera radiata Fischer

12144 A JAM 1888 NEX Margarila BAYAROVA Same Sheer es 12 mi Alberta a several stranged in war was a section, young leaves with a reddish this pyrolaefolia Ledeb. Solik prymotion

1212; 4 Joly July, 1935 ACH Marquita Baranera. 17 76 Arran Altai Mis Elec la Rosola 1 Horth of Eye, render land Achieve and Penus se Centra. Teners dull sent invester Pyrola asarifolia Michx.

Physical and the second of the

12.46-516/9.1988 40, Ma gentla Band a UCCK. Gornon Allayet Anyonon Region . Altai Mts. In the indian structure, ground werden along the Chuyo River A Few ion weston Ai trinky the car 60 km soul weart on a way from 18 to 18 to Flowers lavenda. Astragales astron Frank Day Trans 11: 1 : (7) Astronalin alson on a

12147 - 5 1415,1986 Sund Comparida Barray USSR. Gorno-Altaist Autoromous Region. 130 Em S. and a free knowled of Aktash. Steep, south ricing SCPEC Lity Commence con many Driver Piper 2 1200 m. Lagopsie 10 2, 13, 12 m 1 kom dala · MARY

12148-5 July, 1050 116. USSR Garna- Altarsi Alton nous Region A Hai Tats Ca 160 km south spotherst of Gorno-Altayst and a few Rm. west of Aktash, Eleve 69.1400 m. In dense her baccous and low-shrubby - 1. fins 5 =: west slope of a Canyou. Stime Solitary from a tibrous rooted crown heaves Slaucing, Kays yellow (4)5 (6) ELU /UN. M Ligularia altalea De Ligularia

12149-5 wly, 1985 1 64 112. 221 Ha Baranova USSR Gorno- Altaysk Autonomous Region. Altai Mts. ca 160 her. South-southersto of Gurio Altayik. Stee, loose, Some facility schilore stops overlooking the Chuya River, afraka West of Altash. Flowers bluepuple. E. 120014. Orobanche caesia Keichenk. fra when we were Tyrolong by Commen

12,50 6 July, 1988 AC USSA Goras Altayee Furt (Mampus English. Altai Mis calbokin souther Curno-Altayst. Drainage of the Katun River, a few km Southeast of Kup chegen. serge . Ele 1100m Artemisia campestrish. subsp. borealis (Pallas) H.M. Hall artemeria (boralis" (3)

Same place and 12150

Flowers while you

Dears when Street

Astragalus papereles

1

A strandas - Comme

12152 Jassa Gorno-Altaxsic Autonomicus Region. Al-s Mis ca 90 km south-southwest of Gorno-Altersty & singer Sena Rivery 1: far north of wriths Mass Market Land Lopes with Servery of the species Elm Comment Fls Pirk-lavender Bergenia Crassifolia (L.) Fritsch. 1 me ala a sec Frank in

12193 71200 233 15 R Carrier of French Autonomous Region Same Pa. Lax shruis ca 2-334, - 2 ; Same place as 12151. Vaccinium myntillus L.

Same place es 12 152.

Flowers sky blue.

Myosotis silvatica Huerm, sens, lato (M. Krylovii Serge)

12156- 8 -27 788 A L & Morgarita Baranova USSR-Gorno-Altayse futonomous Kegion. Altai Mts. near Cherga, Ca. 50 km southwest as Gorno-Altaysk, Open, turky killside OVER/ooking the Sema River Alex. CA. 500 m. Flowers dark blue Delphinium laxiflorum DC. Delphin : 33

Automorphism Offer Mitter & Eliob Em southwest of Gorno Altayst. Gypsophila patrinii Ser. On souther. talas in Scalita, colting Plane halis shrubby of laborn of a real tight Printe line in Grynsophil part, in

12157 GJuly, 1988 AC 1) SSR Garno Altava

12 . 5 6 - 9 July, 1758 CHMB Autonomous Region. Altas. Pass a top the An isky Range - r. Mariinsky bin - ca looky southwest of Gorno-Altays/e Elev, Anuisky Large 1300 mi Plants forming trose mats. 3 bracks white Fre to PINKISH Turky ridge-tops in hoch 5, Bring Brida process Antonopia dioien(L.) Gootta Ant Livier (1)

12159- F July 138 ACX N. 3-110 Baranova 9JUN 125 Gonno-Altaysis Automore Region, Altai Mts ea 100km southeast of Gorno-Altayox Open ... ky (11 mistor) but well vegety in men on the wasi side of the Anuisky Range. 1- in a middling releted, While with a free of yellowish or greenish Drawing of a Allay Rower Laris sie gra the dominant free Onosma simplicissimum to. simplicies in 2 Onosma

George Altaysk Al Colours Rugion + Hits. calms the same and the same and the Altayre, y work in : the west side of the Amisky Ranger Elevice 800 m. Flowers yellow. province River Larry Comment of the second of the Hypochoeris misulate L. / a Asi 1

12161 -10 late 1983. 35 Gorno-Altaysk Autonomous The for early Low mendow along the Some Kilon h. ir Cherga, ca 45 km Southwest Garno. Al-282. Elev, Co 45041, Shrubs 6a 1-1,5 m, tall. I loures printer laurindais

Myricaria alopecuroides Schrenk.

Maricania a hacconia

Brilliania 857 Jun A7 Micco sparma in AT Lothe need inentations as formal participaria. Betterd wan lan peinupair for from MY availet can hardle-Museum H) Cond expenses in leton

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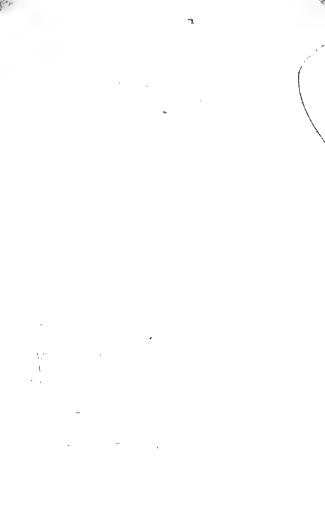
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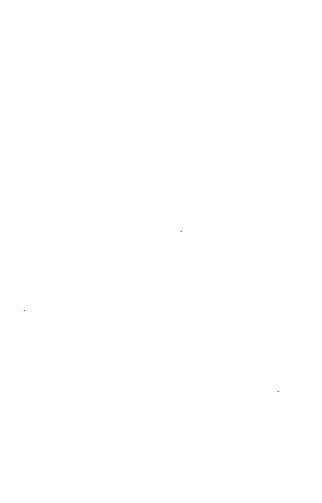
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